





Features

- · Series connection style
- · UL1449 type 4 component assemblies
- · Line to Ground & Line to Line protected
- 10kA maximum discharge current(I_{max}), 8/20µs
- · Thermally protected
- · Double insulation cable wire
- LED status indicator
- · IP66 design for indoor or outdoor installations
- 10KV surge protection capability



Applications

- Outdoor and commercial LED Lighting
- Roadway lighting
- Traffic lighting
- Digital signage
- Wall wash lighting
- · Parking garage/lot lighting
- Flood lighting
- Tunnel lighting
- Street lighting

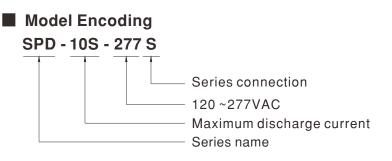
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

SPD-10S-277S thermally protected Surge Protective Device is a self-protected device which is specially designed to be used in outdoor and commercial LED lighting fixtures for transient overvoltage protection. It is constructed with thermally protected varistor technology. Its built-in thermal disconnect function provides additional protection to prevent catastrophic failure and fire hazard even under the extreme circumstances of varistor end-of-life or sustaining over voltage conditions. It also features a built-in LED indicator that notifies when replacement of the module is needed.

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File Name: SPD-10S-277S-SPEC 2022-04-15



SPECIFICATION

MODEL	SPD-10S-277S	
OPERATING VOLTAGE	120~277VAC 50/60Hz	
MCOV/U _c Note.1 (MAX. CONTINUOUS OPERATING VOLTAGE)	320VAC	
CONTINUOUS CURRENT (max.)	3.5A	
MLV Note.2 (MEASURED LIMITING VOLTAGE)	L-N: 1260V L-G: 1260V N-G: 1300V	
U _P Note.3 (VOLTAGE PROTECTION LEVEL)	L-N: 1400V L-G/PE: 2400V N-G/PE: 2200V	
In(NOMINAL DISCHARGE CURRENT) Note.4	5kA, 8/20µs	
Imax. (MAX. DISCHARGE CURRENT) Note.5	10kA, 8/20µs	
OPERATING TEMPERATURE	RATURE -40 ~ +85°C	
SAFETY STANDARDS Note.6	UL1449(Fourth Edition), BS EN/EN61643-11, EAC TP TC 004 approved	
DIMENSION	46.36*56.76*26 (L*W*H)	
PACKING	0.113Kg/Unit; 0.96Kg/one box(8pcs); 6.5Kg/carton(including 5 boxs)	

NOTE: 1. MCOV/Uc: Maximum Continuous Operating Voltage - maximum r.m.s. voltage that could be continuously applied to the SPD.

2. MLV: UL1449 Measured limiting voltage; the highest value of residual voltage measurements during the application of impulses of 8/20µs nominal discharge current (I_n); an average voltage value of 15 impulses.

 U_P: IEC 61643-11 Voltage protection level; the highest value of residual voltage measurements during the application of impulses of 8/20μs nominal discharge current(In); a rounding voltage value of maximum measurement.

4. Nominal Discharge Current I_n (A): The nominal discharge current is a measure of the SPDs endurance capability; 15 impulses of discharge current uses the 8/20µs current waveform.

5. Maximum Discharge Current I_{max} (A): The maximum discharge current is a measure of the SPDs maximum capability; single impulse of discharge current uses the 8/20µs current waveform. All Devices pass maximum discharge current with possible, safe opening of thermal disconnect.

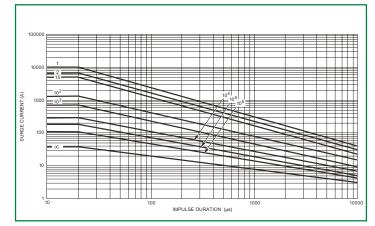
6. Tested with G/PE connection (Class I application). SPD Protection against L-G/PE, N-G/PE voltage surges cannot be achieved without connecting it to G/PE.

X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

SPECIFICATION

SPECIFICATION	Value	Condition	
Temporary Overvoltage (V) TOV UT @ t_r = 5s	403VAC	LV System Fault for TN power Grid	
Temporary Overvoltage (V) TOV UT @ t_r = 120 min.	529VAC	LV System Fault for TN power Grid	
Power grids	TN		
Backup fuse (A)	20A	Maximum gG Fuse	
End of life indication	Yes	Optical Light ON: SPD is functional Light OFF: SPD has reached end-of-life	
Max earth leakage current at Uc (µA)	50		
IEC 61643-11 Test Classification	Test Class II and III		
BS EN/EN61643-11 Type Classification	Type 2 and 3		
UL 1449 Type	4CA		

Repetitive Surge Capability



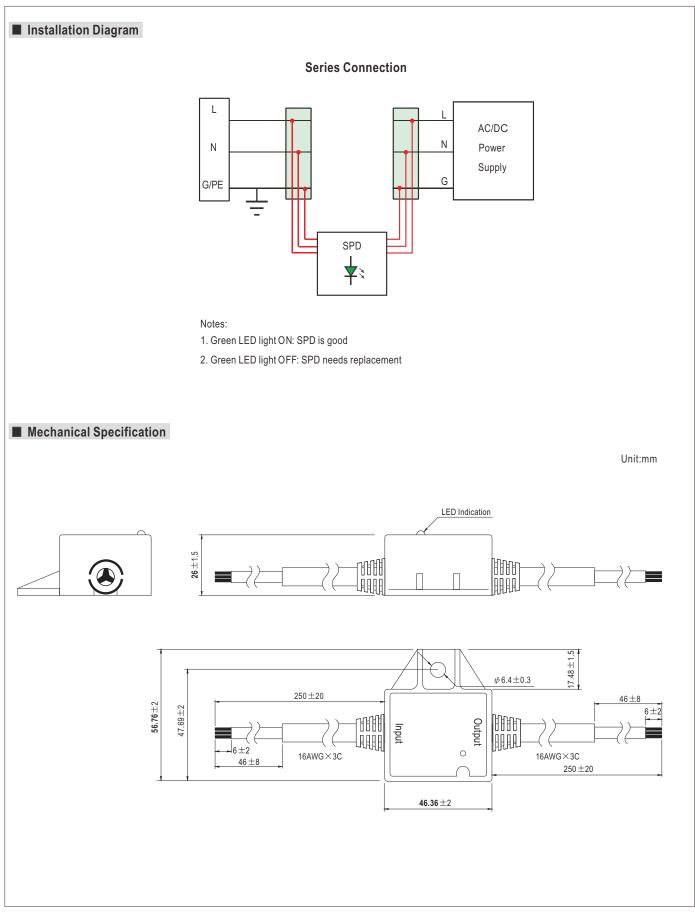
Pulse Rating (8x20µ Sec)			
Strikes	Surge		
1	10,000A		
2	7,000A		
15	5,000A		
100	1,500A		
1,000	700A		

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■ INSTALLATION

- 1. This document provides detailed information on how to install and operate the SPD-10S-277S of Surge Protective Devices(SPDs). Please refer to "Installation Diagram".
- 2. The SPD-10S-277S of Surge Protective Devices are installed/connected in series with the line of TN System.
- 3. Before starting any installation procedures, verify service voltage(AC or DC)with a volt meter to ensure that the correct model has been selected for the supply voltage.
- 4. DO NOT INSTALL THE SPD IF MEASURED VOLTAGE EXCEEDS UNIT RATINGS.
- 5. REMOVE POWER FROM ELECTRICAL SYSTEM PRIOR TO INSTALLATION.
- 6. ENSURE THAT ALL CONNECTIONS ARE CORRECT BEFORE ENERGIZING.
- 7. Apply power(energize), LED indicator should illuminate. If LED is out, the SPD requires service.

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